Index of Claims

| Appl | licatio | on/Co | ntrol | No. |
|------|---------|-------|-------|-----|
|------|---------|-------|-------|-----|

10/734,221

Examiner

Stephen J. Stein

Applicant(s)/Patent under Reexamination

NAGASAWA ET AL.

Art Unit

1775

| <b>√</b> | Rejected |
|----------|----------|
| 11       | Allowed  |

|   | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Ν | Non-Elected  |
|---|--------------|
| _ | Interference |

| A | Appeal   |
|---|----------|
| o | Objected |

| Cla  | aim      |            |          |          | D        | ate      |          |  |                |          |          | Cla      | im.      |                 |          |          | Dat                | е        |               |         |          | Γ   | Cla   | im            |  |                 |          | С               | ate             |                 |                     |           |   |
|--|----------|------------|----------|----------|----------|----------|----------|--|----------------|----------|----------|----------|----------|-----------------|----------|----------|--------------------|----------|---------------|---------|----------|-----|-------|---------------|--|-----------------|----------|-----------------|-----------------|-----------------|---------------------|-----------|---|
|  | <u> </u> | ွ          |          | - 1      |          | - 1      |          |  |                |          |          |          | ख        |                 |          |          |                    |          |               |         | 7        |     |       | - <del></del> |  |                 |          |                 |                 |                 | T                   | П         |   |
| Final  | Original | 9/30/02    |          | - 1      |          |          |          |  |                |          |          | Final    | Original |                 |          |          | 1                  |          |               |         |          |     | Final | Original      |  |                 |          | -               |                 |                 | ŀ                   |           |   |
| iE   | ő        | 8          |          |          | -        |          |          |  |                |          |          | 证        | Ğ        |                 |          |          |                    | ll       |               |         |          |     | 垣     | اجّ           |  |                 | 1        |                 | 1               |                 |                     |           |   |
|  |          | Ll         | _        | $\dashv$ | 4        | 4        | _        |  | Ш              |          |          |          |          | $\Box$          | _        |          | 1                  | Ш        |               | $\perp$ | _        | L   |       |               | _  | _               | _        |                 | _               | _               | _                   | $\dashv$  | _ |
|  | 1        | 1          | 4        | $\perp$  | 4        | _        | _        |  | Ш              |          |          |          | 51       |                 | 4        | _ _      | $oldsymbol{\perp}$ |          |               | _       | 4        | L   |       | 101           | $\Box$                                       |                 | _        | $\dashv$        | $\dashv$        | _               | $\dashv$            | $\dashv$  | _ |
|  | 2        | 1          | 4        | 4        | 4        | _        | _        |  | Ш              |          |          |          | 52       | $\Box$          | _        | 4        | 4                  |          |               | _       | _        | L   |       | 102           |  | _               | _        | _               | _               |                 | $\bot$              | $\dashv$  |   |
|  | 3        | 1          | -        | -        |          | 4        | $\dashv$ |  |                | _        |          |          | 53       | $\dashv$        | -        | - -      | 4_                 |          |               | 4       | 4:::     | ij. | _     | 103           |  | _               | _        |                 | _               | _               | $\dashv$            | 4         |   |
|  | 4        | 1          | -        | +        | $\dashv$ | -        | $\dashv$ |  | -              |          |          |          | 54       |                 | +        | +        | ┼                  | -        | -             | -       | -        |     | 1     | 104           |  | _               | _        | _               |                 | $\dashv$        | $\dashv$            | -         | _ |
| <u>                                     </u>     | 5        | 7          | $\dashv$ | +        | +        | -        | -        |  | -              |          |          |          | 55       | $\vdash$        | +        | -        | ┼                  | $\vdash$ |               | -       | -        | -   |       | 105           | _  | $\dashv$        |          | -               | $\dashv$        | -               | -                   | $\dashv$  | _ |
| <del>                                     </del> | 6<br>7   | 1          | $\dashv$ | -        | +        | $\dashv$ | -        |  | -              | _        |          |          | 56<br>57 |                 | +        | +        | ╫                  | $\vdash$ |               | +       | -        | ╟   |       | 106           |  | -               |          | $\dashv$        | $\dashv$        | $\dashv$        | -+                  | $\dashv$  | _ |
| $\vdash$   | 8        | V          | $\dashv$ | $\dashv$ | +        | $\dashv$ | $\dashv$ |  | -              |          |          |          | 58       | -+              | -        | ╬        | ╫                  | ┨        | +             | +       | -        | ŀ   |       | 107<br>108    |  | $\dashv$        | -        |                 | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  | - |
|  | 9.       | H          | +        | $\dashv$ | $\dashv$ |          | $\dashv$ |  | -              |          |          | $\vdash$ | 59       |                 | +        | +        | +-                 | ╂╼┤      | -             | ╁       | -        | -   |       | 109           |  | -               | $\dashv$ | $\dashv$        | $\dashv$        | $\dashv$        | ᆉ                   | $\dashv$  |   |
|  | 10       | 7          | +        | ╅        | +        | $\dashv$ | $\dashv$ | _  | <del>  -</del> |          |          |          | 60       | H               | +        | +-       | ╁                  | $\vdash$ |               | ┿       | -        | ⊪   |       | 110           | _  | $\dashv$        | $\dashv$ | -               | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  |   |
| _  | 11       | ╁          | $\dashv$ | 十        | +        | ┪        | $\dashv$ | -  |                |          |          |          | 61       | $\vdash$        |          | +-       | ╁                  | ┨        | +             | ╁       | -        | ⊪   |       | 111           | -  | $\dashv$        | $\dashv$ | $\dashv$        | $\dashv$        |                 | $\dashv$            | $\dashv$  | - |
| $\vdash$   | 12       | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ | +        | $\dashv$ | -  | +-             | _        | <b> </b> |          | 62       | $\vdash \vdash$ | +        | +-       | ╁                  | ╁┤       | $\dashv$      | +       | -        | ╟   |       | 112           | -  | -               | $\dashv$ | $\dashv$        | $\dashv$        |                 | $\dashv$            | $\dashv$  | - |
| <del> </del>                                     | 13       | Н          | $\dashv$ | $\dashv$ | $\dashv$ | +        | ᅱ        | Н  | H              |          | l        |          | 63       | $\vdash$        | $\dashv$ | +        | +                  | $\vdash$ | $\dashv$      | +       | -        | ŀ   |       | 113           | $\vdash$                                     | $\vdash$        | $\dashv$ |                 | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  |   |
|  | 14       | $\vdash$   | $\dashv$ | _        | +        | $\dashv$ | $\neg$   | $\vdash$   | 1              |          | 1        |          | 64       | H               | T        | ╅        | +                  | Н        | $\dashv$      | +       | -        | ŀ   |       | 114           | -  | $\vdash$        | $\dashv$ | $\dashv$        | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  | — |
|  | 15       | $  \neg  $ | 十        | 十        | 十        | 7        | $\neg$   | _  | 1              |          |          |          | 65       | $\vdash$        | 十        | +        | +                  | $\vdash$ | $\neg \vdash$ | +       | 1        | ŀ   |       | 115           | $\vdash$                                     | -               | $\dashv$ | $\dashv$        | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  | _ |
|  | 16       | П          | $\dashv$ | 十        | $\dashv$ | ┪        | $\neg$   | $\vdash$   | Т              |          | 1        |          | 66       | $\vdash$        | 十        | +        | $\top$             | $\Box$   | _             | 十       | ٦.       | ıŀ  |       | 116           | Н  | $\vdash$        | -1       | $\dashv$        | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  |   |
| <b> </b>   | 17       | П          | $\dashv$ | $\dashv$ | $\dashv$ | 1        |          |  | T              |          | 1        |          | 67       | H               | $\top$   | 十        | T                  | H        | $\dashv$      | 十       | 7        | ı   |       | 117           | Н  |                 |          | Н               | $\dashv$        | $\dashv$        | $\dashv$            | $\dashv$  | _ |
|  | 18       | П          | $\dashv$ | $\neg$   | 十        | ┪        |          |  | T              |          | 1        |          | 68       | П               | 十        | $\top$   | $\top$             | $\vdash$ |               |         | 1        | ı   |       | 118           | $\vdash$                                     | $\square$       |          | Н               | $\neg$          | $\dashv$        | $\dashv$            | $\dashv$  | _ |
|  | 19       |            | $\neg$   | $\neg$   | $\neg$   | $\neg$   |          |  | $\vdash$       |          |          |          | 69       |                 |          | 十        |                    | Ħ        | $\neg$        | $\top$  | ٦.       | ı   |       | 119           |  | $\Box$          |          |                 | $\neg$          |                 | $\dashv$            | $\dashv$  |   |
|  | 20       | П          | 一        | $\neg$   | $\dashv$ |          |          |  |                |          | 1        |          | 70       |                 | _        |          |                    |          |               | Ť       | ٦.       | ı   |       | 120           |  |                 |          |                 |                 | $\Box$          | $\neg$              | $\neg$    | _ |
|  | 21       |            |          | T        | T        |          |          |  | Т              |          | 1        |          | 71       | П               |          |          |                    |          | $\neg$        |         | 7!!      |     |       | 121           |  |                 |          |                 | $\Box$          | $\Box$          | $\exists$           | $\exists$ | _ |
|  | 22       |            |          |          |          |          |          |  |                |          |          |          | 72       |                 |          |          |                    |          |               |         | 7!!      | ıſ  |       | 122           |  |                 |          |                 | П               |                 | $\neg$              |           |   |
|  | 23       |            |          | -        |          |          |          |  |                |          |          |          | 73       |                 |          |          |                    |          |               |         |          |     |       | 123           |  |                 |          |                 |                 |                 |                     |           |   |
|  | 24       |            |          |          |          |          |          |  |                |          |          |          | 74       |                 |          |          |                    |          |               |         |          |     |       | 124           |  |                 |          |                 |                 |                 |                     |           |   |
| <u></u>  | 25       |            |          |          |          | $ \bot $ |          |  |                |          |          |          | 75       |                 |          |          |                    |          |               |         |          |     |       | 125           |  |                 |          |                 |                 |                 | $\Box$              |           | _ |
| <u></u>  | 26       | Ш          | _        |          | _        |          |          |  | _              |          |          |          | 76       | Ш               |          | _        |                    |          |               | ┸       | ╝        |     |       | 126           |  |                 |          |                 |                 |                 |                     |           |   |
|  | 27       | Ш          | _        | _        | 4        | _        |          | _  | L              | L        | <b>.</b> | <u> </u> | 77       |                 | _ _      |          | 4_                 | Ш        | _             | $\perp$ | _        |     |       | 127           |  |                 |          |                 | Ш               | Ш               | $ \bot $            | $ \bot $  |   |
|  | 28       | Ш          | _        | _        | 4        | _        |          | L_   | <u> </u>       | _        |          |          | 78       | $\sqcup$        |          |          | 1_                 |          | _ _           | 4       | _        |     |       | 128           | <u>.                                    </u> |                 |          |                 |                 |                 | $\rightarrow$       | _         |   |
|  | 29       | Ш          | _        | _        | _        | _        |          | L.   | ┞.             | L.       |          |          | 79       | $\sqcup$        | _        |          | _                  | $\perp$  |               | ┸       | _        |     |       | 129           | <u> </u>                                     |                 |          |                 | Ш               |                 | _                   | _         |   |
| L  | 30       | Ш          | -        | 4        | 4        | _        |          | _  | _              | _        |          |          | 80       |                 | _        |          | 4_                 |          | _             |         | 4        |     |       | 130           | _  |                 |          |                 | Ш               |                 | Ш                   | $\dashv$  | _ |
| <u> </u>   | 31       |            | -        | _        | _        | _        |          |  | ╙              | ╙        | 1        |          | 81       | $\square$       | 4        | $\perp$  | _                  | ╙        |               | 4       | 4        |     |       | 131           | _  | Ш               |          |                 | Ш               |                 | $\square$           | _         | _ |
| <u></u>  | 32       | Н          | $\dashv$ |          | $\dashv$ | $\dashv$ |          | $\vdash$   | ├-             | _        | 4        |          | 82       | $\sqcup$        | +        | 4.       | +                  | $\vdash$ | -             |         | 4        | 1   |       | 132           | $\vdash$                                     | $\vdash \dashv$ |          | _               | Щ               | $\vdash \vdash$ | <del></del>         | _         | _ |
| <u> </u>   | 33       | $\vdash$   | $\dashv$ | $\dashv$ | -+       |          |          | <u> </u>   | $\vdash$       | <u> </u> | 4        | <b>_</b> | 83       |                 | $\dashv$ |          | +                  | $\vdash$ | +             | +       | 4        | 1   |       | 133           | $\vdash$                                     | $\vdash$        | _        | $\vdash \vdash$ | $\vdash$        | $\vdash \vdash$ | $\vdash \downarrow$ |           | _ |
| -  | 34<br>35 | Н          | $\dashv$ | $\dashv$ | $\dashv$ |          |          | ⊢  | $\vdash$       | $\vdash$ | 4        |          | 84<br>85 | $\vdash$        | -        | +        | +                  | $\vdash$ |               | +       | -        |     |       | 134           | ⊢  | Н               |          | $\vdash$        | $\vdash$        | Н               | $\vdash \vdash$     |           | _ |
| $\vdash$   | 36       | $\vdash$   | -+       | $\dashv$ | $\dashv$ | $\dashv$ |          | ├  | +-             | -        | 4        |          | 86       | $\vdash$        | +        | +        | +-                 | $\vdash$ | +             | +       | -        | 1   |       | 135<br>136    | ├-   | $\vdash$        |          | Н               | ┌┤              | $\vdash$        | $\dashv$            | $\dashv$  | _ |
| <del></del>                                      | 37       | $\vdash$   | $\dashv$ | ┥        | -+       | $\dashv$ | _        | $\vdash$   | ╁              | -        | 1        |          | 87       | $\vdash$        | $\dashv$ | +        | ╁                  | $\vdash$ | -             | +       | $\dashv$ | 1   |       | 136           | -  | Н               | _        | $\vdash$        | $\vdash$        | $\vdash$        | $\vdash \vdash$     |           | _ |
| <del> </del>                                     | 38       | $\vdash$   | $\dashv$ | $\dashv$ | $\dashv$ |          |          | ⊢  | $\vdash$       | $\vdash$ | ł        |          | 88       | $\vdash$        | ┰        | +        | +                  | $\vdash$ | +             | +       | -        | ŀ   |       | 138           | -  | Н               | _        | $\vdash$        | $\vdash \vdash$ | $\vdash$        | $\vdash\vdash$      | $\dashv$  | _ |
| <del></del>                                      | 39       | Н          | $\dashv$ | +        | $\dashv$ |          | _        | ╁  | $\vdash$       | $\vdash$ | 1        |          | 89       | ╁╌┤             | $\dashv$ | +        | +                  | ╁        | -             | +       | -        | H   |       | 139           | ┢  | Н               | _        | $\vdash$        | H               | H               | $\vdash$            | $\dashv$  | _ |
| <b>-</b>   | 40       | Н          | $\dashv$ | +        | $\dashv$ | $\dashv$ |          | $\vdash$   | +              | -        | 1        |          | 90       | $\vdash$        | $\dashv$ | +        | +                  | $\vdash$ | -             | +       |          | H   |       | 140           | $\vdash$                                     | $\vdash$        | _        | -               | H               | $\vdash$        | $\vdash$            | $\dashv$  |   |
| <b> </b>   | 41       | $\vdash$   | -        | -+       | -        | $\neg$   | -        | <del>                                     </del> | $\vdash$       | $\vdash$ | 1        | $\vdash$ | 91       | $\vdash$        | $\dashv$ | $\dashv$ | +-                 | $\top$   | $\vdash$      | +       | -        | ı   |       | 141           | _  | H               | _        | _               |                 | Н               | $\vdash$            | -         | _ |
|  | 42       | П          | _        | _        | _        |          |          | $\vdash$   | $t^-$          | $\vdash$ | 1        |          | 92       | Н               | $\dashv$ | $\dashv$ | +-                 | 1        | $\dashv$      | -       | ٦.       | H   |       | 142           |  | Н               | _        | $\vdash$        |                 | Н               | ┌┤                  | $\dashv$  |   |
|  | 43       | Н          | 一        | 一        | 7        | $\dashv$ |          | $\vdash$   | T              | $\vdash$ | 1        |          | 93       | $\Box$          | 十        | $\dashv$ | 1                  | T        | -             | 十       | $\dashv$ | ı   |       | 143           |  | Н               |          | $\vdash$        | Н               | Н               | $\vdash$            | $\dashv$  |   |
|  | 44       | П          | 7        | 7        | 十        | -        |          | $\vdash$   | $\top$         | $\vdash$ | 1        |          | 94       | $\vdash$        | $\dashv$ | +        | +                  | T        | $\dashv$      | +       | -        | ł   |       | 144           | <u> </u>                                     | М               |          | $\vdash$        |                 | Н               | $\vdash$            | $\neg$    |   |
|  | 45       | П          | 一        | 7        | 7        | $\dashv$ |          | $\vdash$   | T              |          | 1        |          | 95       | $\vdash$        | 十        | _        | ╅╴                 | $\vdash$ | $\dashv$      | 十       | ١        | ı   |       | 145           | T  | $\vdash$        | _        | $\vdash$        |                 | Н               | $\vdash$            | $\neg$    | _ |
|  | 46       | П          | 寸        | $\dashv$ | 7        | $\neg$   |          | Г  | $\top$         |          | 1        |          | 96       | $\Box$          | $\dashv$ | $\top$   | $\top$             | $\top$   | $\top$        | +       | ۱.       | ı   |       | 146           | T  | Н               | _        | $\vdash$        | $\sqcap$        | П               | 一                   | 7         | _ |
|  | 47       | П          | 寸        | $\neg$   | 7        |          |          | Г  | $\top$         |          | 1        |          | 97       | $\Box$          |          | $\top$   | $\top$             | Т        | $\top$        | ┪       | 7        | ı   |       | 147           | Г  | П               | _        | П               | $\sqcap$        | П               | 一                   | $\dashv$  |   |
|  | 48       |            | 丁        |          |          |          |          |  |                |          | ]        |          | 98       |                 |          | $\top$   | 1                  | Π        | $\Box$        | 十       | 7        | ı   |       | 148           | Г  | П               |          | П               | П               | П               | П                   | $\Box$    | _ |
|  | 49       |            |          |          |          |          |          |  |                |          |          |          | 99       |                 | ⇉        | ┰        | T                  | П        |               | 丁       | 7        | ı   |       | 149           |  | П               |          | П               | $\sqcap$        | П               |                     |           | _ |
|  | 50       |            |          |          | T        |          |          |  |                |          | ]        |          | 100      | П               | $\top$   | T        | T                  | П        | $\Box$        | T       | 7        |     |       | 150           |  |                 |          |                 | П               | П               | П                   | $\exists$ |   |